

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|--|---|---|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Citizen Monitoring Programs | | | | |
| Ambient Water Quality Monitoring | ALUS – Dissolved Oxygen, pH, Salinity, Temperature, Turbidity | Alliance for the Chesapeake Bay Anna Mathis 804-775-0951 www.acb-online.org | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen and temperature data collected using EPA protocols are acceptable for assessment use. Dissolved oxygen and pH results not following EPA protocols are acceptable for assessment for water quality as VA Category 3C or 3D. Data for Secchi depth, and salinity not used for assessment due to no state water quality standard. | Reference February 12, 2004 letter to Alliance for the Chesapeake Bay. 77 stations with 3,224 sample events over the six year assessment window. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature | Ashburn Village Monitors Shannon Groves | QA/QC review by DEQ James Beckley, 804-698-4025. Based on review of the analytical methods used, temperature, DO, ammonia, and nitrate were determined unacceptable for assessment. | Reference letter February 15, 2008 to Shannon Groves. 12 stations monitored from 2005 to 2006 |
| Benthic Macroinvertebrate Monitoring | ALUS – Benthic | Audubon Naturalist Society Cliff Fairweather 703-803-8400 www.audubonnaturalist.org | QA/QC plan and SOPs for benthic macroinvertebrates were reviewed and data was used for VA Category 3C and 3D assessment | 8 stations with 43 sampling events from January 2005 to December 2006. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature, pH SWIM-Fecal Bacteria | Blackwater Nottoway Riverkeeper Jeff Turner 757-562-5173 www.blackwaternottoway.com | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, E. coli, pH, and Temperature were used for assessment of water quality as VA Category 3C or 3D | Reference letter February 11, 2010 to Jeff Turner. 14 stations with 171 sample events collected from March 2006 to December 2010. |

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| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature | Bull Run Mountains Conservancy Michele Thieme 703-753-2631 www.brmconservancy.org | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, and Temperature were used for assessment of water quality as VA Category 3C or 3D | Reference letter February 11, 2010 to Michele Thieme. 7 stations with 15 sample events collected between Mat 2005 to April 2006 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, temperature | Chesapeake Bay Governors School/ Tidewater RC&D Patricia Hall-Tidewater RC&D 804-642-4852 www.tidewaterrcd.org | QA/QC review by DEQ James Beckley 804-698-4025 Dissolved oxygen, pH, and temperature data using EPA protocols is acceptable for assessment use. | Reference QAPP signed October 2003. 4 stations with 16 sample events from February to March 2006 |
| Ambient Water Quality Monitoring | SWIM – E. coli | Clean Virginia Waterways/ Longwood University Katie Register- CVW 434-395-2602 David Buckalew- Longwood 434-395-2586 www.longwood.edu/cleanva | QA/QC review by DEQ James Beckley, 804-698-4025 E. coli data collected using EPA protocols are acceptable for assessment use. | 23 stations with 639 sample events over the six year assessment window. |
| Ambient Water Quality Monitoring | SWIM – E. coli | Cowpasture River Preservation Association Polly Newlon 540-474-2858 http://cowpastureriver.org/ | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 15 stations with 320 sample events from January 2007 to December 2009 |
| Ambient Water Quality Monitoring | ALUS- Temperature SWIM- E. coli | Cubitt Creek Monitors | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 10 stations with 70 sample events from March to September 2009 |

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| Ambient Estuary Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | Dividing Creek Association Skip Kramb http://dividing-creek-association.com | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data using EPA protocols is acceptable for assessment use. E. coli Coliscan Easygel™ data is suitable to assess water quality as VA Category 3C or 3D. | Reference letter of February 11, 2010 to Skip Kramb. 48 stations with 627 sample events collected from March 2008 to December 2010. |
| Ambient Lake Monitoring | ALUS – Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM – Fecal Bacteria | Ferrum College/Smith Mountain Lake Association Dr. Carolyn Thomas 540-365-4368 www.smlassociation.org | QA/QC review by DEQ James Beckley, 804-698-4025 After reviewing sample collection protocols, and lab audit, dissolved oxygen, E. coli, pH, and temperature were acceptable for assessment use. Chlorophyll a and total phosphorus data is suitable to assess water quality as VA Category 3C or 3D. | Reference letter of February 11, 2010 to Dr. Thomas. 141 stations with 2,437 sample events collected during the six year assessment window. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Friends of Blacks Run Greenway John Reeves 540-433-9358 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to John Reeves. 15 stations with 152 observations from August 2005 to December 2006. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | Friends of Chesterfield's Riverfront Lorne Field 804-748-1920 www.chesterfieldriverfront.org | QA/QC review by James Beckley, 804-698-4025. E. coli, dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D. | Reference letter of February 11, 2010 to Friends of Chesterfield Riverfronts 32 stations with 1,062 sample events collected during the six year assessment window. |
| Ambient Water Quality Monitoring | SWIM- Enterococcus | Friends of Norfolk Environment John Stewart 757-623-8127 | QA/QC review by James Beckley, 804-698-4025 Enterococcus protocol used is acceptable for assessment use. | 11 stations with 132 sample events collected from January to December 2010 |

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| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature, SWIM- E. coli | Friends of the North Fork Shenandoah River Leslie Mitchell-Watson 540-459-8550 http://www.fnfsr.org/ | QA/QC review by DEQ James Beckley, 804-698-4025. The methods passing QA/QC checks are acceptable for assessment for ammonia, dissolved oxygen, pH, and temperature. Nitrite data only assessed for public water supply use. | Nitrate, orthophosphate, and turbidity not assessed due to no Virginia water quality standards for comparison. Laboratory analysis conducted by the Friends of Shenandoah River. 9 stations with 107 sample events collected from April to December 2010 |
| Ambient Water Quality Monitoring | ALUS – Dissolved Oxygen, Nutrients, pH, Temperature SWIM- E. coli | Friends of the Shenandoah River Karen Andersen 540-665-1286 www.fosr.org | QA/QC review by DEQ James Beckley, 804-698-4025. The methods passing QA/QC checks are acceptable for assessment for ammonia, dissolved oxygen, E. coli, pH, and temperature. Nitrite data only assessed for public water supply use. | Nitrate, orthophosphate, and turbidity not assessed due to no Virginia water quality standards for comparison. 257 stations with 11,972 sample events collected during the six year assessment window |
| Ambient Water Quality Monitoring | ALUS- Temperature SWIM- E. coli | Friends of Russell Fork http://forf.weebly.com/ | QA/QC review by DEQ James Beckley, 804-698-4025 E. coli, and temperature data is suitable to assess water quality as VA Category 3C or 3D. | 19 stations with 317 sample events collected from January 2009 to June 2010. |
| Ambient Water Quality Monitoring | SWIM- E. coli | George Mason High School Dr. Peter Mecca 703.248.5500 ext. 3043 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 4 stations with 56 sample events from February 2009 to December 2010. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | Goose Creek Association Andrea Rosse 540-687-3073 www.goosecreekassn.org | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data meeting QA/QC requirements, and are acceptable for assessment. | Reference letter February 15, 2008 to Hazle Edens. 23 stations with 667 sample events collected during the six year assessment window. |

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| | | | E. coli used for assessment of water quality as VA Category 3C or 3D | |
| Ambient Water Quality Monitoring | ALUS – Dissolved Oxygen, Nutrients, pH, Temperature, Total Suspended Solids | Historic Green Springs, Inc. 540-967-1099 | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen and total phosphorus tests meeting QA/QC requirements, and temperature data are acceptable for assessment. Dissolved oxygen, total phosphorus data not meeting QA/QC requirements and pH data were determined acceptable for assessment of water quality as VA Category 3C or 3D. | Reference letter February 11, 2010 to Robin Patton. Data for TSS and total nitrogen were not used for assessment because the state does not have water quality standards for comparison. 7 stations with 165 sample events collected during the six year assessment window. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, | Hoffler Creek Wildlife Foundation Ashley Morgan 757-686-8684 www.hofflercreek.org/ | QA/QC review by DEQ James Beckley, 804-698-4025 Dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D. | Secchi and salinity data not used for assessment because the state does not have water quality standards for comparison. 1 station with 23 sample events collected during 2009 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature | Isle of Wight Ruritan Club Mitchell Norman | QA/QC review by DEQ James Beckley, 804-698-4025. Upon review of sample collection protocols, dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D. | Reference letter February 11, 2010 to Mitchell Norman. 3 stations with 60 sample events monitored during the 6 year assessment window. |
| Ambient Lake monitoring | ALUS – Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM – Fecal Bacteria | Lake Anna Civic Association Ken Remmers www.lakeannavirginia.org | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature, total phosphorous and E. coli data are acceptable for assessment. | 41 stations with 641 sample events over the six year assessment window. |

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| Ambient Lake monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | Leesville Lake Association Michael Lobue www.leesvillelake.org | QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data are acceptable for assessment. E. coli Coliscan Easygel™ data is acceptable for VA Category 3C and 3D purposes. | Reference May 2007 Quality Assurance Project Plan. 12 stations with 368 sample events monitored from May 2007 to October 2010. |
| Benthic Macroinvertebrate Monitoring | ALUS – Benthic SWIM- E. coli | Loudoun Wildlife Conservancy David Ward www.loudounwildlife.org | QA/QC plan and SOPs for benthic macroinvertebrates reviewed. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D. E. coli used for assessment of water quality as VA Category 3C or 3D | 33 stations with 936 sample events collected during the six year assessment window. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Mattaponi and Pamunkey Rivers Association Joyce Brooks www.mpra.org/ | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Joyce Brooks. 13 stations with 90 sample events. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | McClure River Restoration Project Noreen Fleming 276-926-6621 http://lpswcd.org/MRRP/MRRP.htm | QA/QC review by James Beckley 804-698-4025. E. coli samples collected after August 2006 were determined acceptable for assessment | Reference letter February 15, 2008 to McClure River Restoration Project. 38 stations with 391 sample events. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | National Committee for the New River Courtney Wait 336-982-6267 www.ncnr.org | QA/QC Review by James Beckley 804-698-4025. Dissolved oxygen, and temperature data are suitable for assessment. E. coli and pH data suitable for VA Category 3C or 3D assessment. | Reference letter February 11, 2010 to Courtney Wait. 34 stations with 326 sample events collected from April 2008 to December 2010. |

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| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Nelson County Master Gardeners www.nelsonmastergardeners.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 23 stations with 86 sample events collected from May to December 2008. |
| Ambient Water Quality Monitoring | SWIM- E. coli | Opequon Watershed Inc. Jim Lawrence 540-667-0761 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Jim Lawrence. 25 stations with 208 sample events. Stations are shared with Friends of Shenandoah River. |
| Ambient Water Quality Monitoring | ALUS- pH, Temperature SWIM- E. coli | Phi Theta Kappa- Blue Ridge Community College Larry Rasheed (540) 453-2388 | QA/QC review by James Beckley, 804-698-4025 Calibrated pH probe data acceptable for assessment. E. coli and temperature data used for assessment of water quality as VA Category 3C or 3D | 2 stations with 36 sample events from January to December 2010 |
| Ambient Water Quality Monitoring | ALUS- pH, Salinity, Temperature SWIM – Fecal Bacteria | Poquoson Citizens for the Environment Philip Prisco 757-868-8785 | QA/QC review by James Beckley, 804-698-4025. Temperature and pH data passing calibration checks are acceptable for assessment. E. coli used for assessment of water quality as VA Category 3C or 3D | 32 stations with 305 sample events from January 2008 to December 2010. |
| Ambient Water Quality Monitoring | ALUS- Benthic, Dissolved Oxygen, pH, Temperature | Potomac Appalachian Trail Club Robert Pickett http://potomacappalachian.org | QA/QC review by James Beckley, 804-698-4025. Benthic macroinvertebrate, dissolved oxygen, pH, and temperature data are suitable for VA Category 3C or 3D assessment. | 7 stations with 28 sample events collected from May 2005 to December 2008. |

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| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Randolph Macon College Dr. Charles Gowan 804-752-7293 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Dr. Charles Gowan. 12 stations with 108 observations collected September 2005 to October 2006. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | RappFLOW Beverly Hunter 540-937-4038 www.rappflow.org | QA/QC review by James Beckley, 804-698-4025. E. coli, pH, temperature, and dissolved oxygen results were acceptable for of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Beverly Hunter. 20 stations with 89 observations collected from April 2006 to December 2006. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- E. coli | Riverine Chapter of the Virginia Master Naturalists Kathleen Ogilvy 804-798-8362 www.virginiamasternaturalist.org/riverine.html | QA/QC review by James Beckley, 804-698-4025. E. coli, pH, temperature, and dissolved oxygen used for assessment of water quality as VA Category 3C or 3D | 6 stations with 29 observations collected from March 2009 to December 2009. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Rockfish Valley Foundation Peter Agelasto www.rockfishvalley.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 6 sites with 48 sample events from December 2006 to September 2007 |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Save Little Pimmit Run http://savelittlepimmitrun.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 5 sites with 22 sample event from February to July 2008 |
| Benthic Macroinvertebrate Monitoring | ALUS – Benthic SWIM- E. coli | StreamWatch Rose Brown 434-242-1145 www.streamwatch.org | QA/QC review by James Beckley, 804-698-4025. After completion of a validation study and review of protocols, StreamWatch Adopted Stream Condition Index (ASCI) is equal to DEQ protocols. Benthic | Reference letter February 11, 2010 to John Murphy. 72 stations with 787 sampling events collected over the six-year assessment window. |

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| | | | macroinvertebrate ASCI data is acceptable for assessment. E. coli used for assessment of water quality as VA Category 3C or 3D | |
| Ambient Water Quality Monitoring | ALUS – Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM- Fecal Bacteria | Timberlake Homeowners Association | QA/QC review by James Beckley, 804-698-4025. Upon review of sampling methods, calibration logs, equipment and use of DCLS for laboratory analysis, data is acceptable for assessment purposes. | Reference letter February 15, 2008 to Kenneth Bumgarner. 11 stations with 114 sample events from January to July 2006 |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Upper Tennessee River Roundtable Martha Chapman 276-628-1600 www.upperrnriver.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Martha Chapman. 9 stations with 126 sample events collected from February 2006 to August 2007 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature SWIM- E. coli | Virginia Karst Monitors Charles W. Maus 540-381-0790 | QA/QC review by James Beckley, 804-698-4025 Dissolved oxygen, E. coli, pH, temperature used for assessment of water quality as VA Category 3C or 3D | 10 stations with 44 sample events collected from March 2009 to December 2010. |
| Benthic Macroinvertebrate Monitoring | ALUS – Benthic | Virginia Save Our Streams Leah Miller 301-548-0150 x219 www.vasos.org | QA/QC plan and SOPs for benthic macroinvertebrates. James Beckley, 804-698-4025 Benthic macroinvertebrate data used for assessment of water quality as VA Category 3C or 3D. | Reference letter February 15, 2008 to Virginia Save Our Streams. 449 stations with 1,795 sampling events collected over the six-year assessment window. |

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| Soil and Water Conservation Districts | | | | |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Headwaters SWCD Sandy Greene 540-248-6218, ext. 3 www.headwatersswcd.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Sandy Greene. 14 stations with 65 sample events collected from March 2006 to December 2008 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature, SWIM- Fecal Bacteria | John Marshall SWCD Chuck Hoysa 540 347-3120 www.fauquiercounty.gov/government/departments/jmswcd | QA/QC review by James Beckley, 804-698-4025. Dissolved oxygen, E. coli, pH, and temperature used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Chuck Hoysa. 35 stations with 1131 sample events collected over the six-year assessment window. |
| Ambient Water Quality Monitoring | SWIM- E. coli | Lord Fairfax SWCD http://lfswcd.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Lisa Zirkle. 12 stations with 233 sample events from November 2005 to October 2007. |
| Ambient Water Quality Monitoring | SWIM- E. coli | Prince William SWCD Kelly Jimenez 703-594-3621 www.pwswcd.org | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 12 stations with 36 sample events from May to July 2010. |
| Ambient Water Quality Monitoring | SWIM- E. coli | Southside SWCD Patricia Mays 434-542-5342 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 21 stations with 412 sample events from April 2009 to December 2010. |
| Ambient Water Quality Monitoring | SWIM- E. coli | Thomas Jefferson SWCD Emily Nelson 434-975-0224 http://tjswcd.org/ | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 11 stations with 161 sample events from July 2009 to December 2010 |

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| DEQ Chesapeake Bay Program | | | | |
| Chesapeake Bay Biological Monitoring | ALUS – Benthic B-IBI | DEQ-CBP Rick Hoffman 804-698-4334 | Documented QA/QC Plan Rick Hoffman | Approx. 21 mainstem and tributary fixed stations, 100 random stations yearly |
| Chesapeake Bay Program Water Quality Monitoring | ALUS – Chlorophyll a Dissolved Oxygen, Nutrients, pH, Temperature | DEQ-CBP Rick Hoffman 804-698-4334 | Documented QA/QC Plan Rick Hoffman | 128 mainstem and tributary, and non-tidal stations sampled during the assessment cycle |
| DEQ Ambient and Biological Water Quality Monitoring Program | | | | |
| Ambient Watershed Monitoring Program – Water Column | ALUS – Dissolved Oxygen, Nutrients, pH, Temperature SWIM – Fecal Bacteria | DEQ-WQA Roger Stewart 804 698-4449 | Documented QA/QC Plan James Beckley (804) 698-4025 | Approximately 1400 stations monitored monthly or quarterly for entire 305(b) window. |
| Ambient Watershed Monitoring Program – Sediment Sampling, Water Column Toxics, Nutrients | ALUS – Chlorophyll a, Nutrients, Sediment Organics & Metals, Water Column Organics & Metals | DEQ-WQA Roger Stewart 804 698-4449 | Documented QA/QC Plan James Beckley 804-698-4025 | Approximately 1400 stations monitored once a year for at least part of the 305(b) window. |
| Biological Monitoring Program | ALUS – Benthic, Dissolved Oxygen, pH, Temperature | DEQ-WQA Richard Browder 804-698-4134 | Protocols and QA/QC Plan: Alex Barron 804-689-4119 | Approximately 200 stations sampled twice a year (spring & fall) by Regional Biologists |
| Statewide Lake Monitoring | ALUS – Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Sediment Organics & Metals, Temperature SWIM – Fecal Bacteria | DEQ-WQA Richard Browder 804-698-4134 | Followed ambient watershed QA/QC procedures | Approx. 100 significant lakes. Regions sample priority ranked lakes 3 seasons for one year out of 5 on rotation |
| DEQ Water Quality Standards Program | | | | |
| Statewide Fish Tissue Program | FISH – Fish Tissue Analysis | DEQ-WQS Alex Barron 804-689-4119 | Protocols and QA/QC Plan: Alex Barron 804-689-4119 | 37 stations sampled |
| Statewide Sediment Contamination Program | ALUS – Sediment Organics, Sediment Metals | DEQ-WQS Alex Barron 804-689-4119 | Protocols and QA/QC Plan: Alex Barron 804-689-4119 | Approximately 40-80 selected stations sampled each year. |

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| James River Monitoring of Fish Tissue for Kepone | ALUS – Kepone | DEQ-WQS Alex Barron 804-689-4119 | Protocols for fish sampling Kepone verified by VIMS: Alex Barron 804-698-4119 | Five stations in James River sampled once every two years. |
| Wadeable Stream Nutrient Criteria pilot Project | ALUS- Nutrients | DEQ-WQS David Whitehurst 804-698-4121 | Followed ambient watershed QA/QC procedures | 46 stations |
| DEQ Special Studies | | | | |
| Ammonia Special Study | ALUS- Ammonia | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 7 stations |
| Buffalo River TMDL | ALUS- Benthic SWIM– Fecal Bacteria | DEQ- BRRO-Lynchburg Paula Nash 434-582-6216 | Followed ambient and benthic QA/QC procedures | 7 stations |
| Banister River TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 21 stations |
| Dan River TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 13 stations |
| Flat Rock Creek TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 8 stations |
| Great Creek TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 5 stations |
| Hog Farm Special Study | SWM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 17 stations |
| Little Buffalo Creek Special Study | ALUS- Benthic | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed benthic QA/QC procedures | 3 stations |
| Lynchburg Watershed TMDL | SWIM– Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 13 stations |
| North Creek TMDL | ALUS- Benthic | DEQ- BRRO-Lynchburg Paula Nash 434-582-6216 | Followed benthic QA/QC procedures | 3 stations |

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| Pedlar River Reservoir pH Special Study | ALUS- pH | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 6 stations |
| Slate River TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227 | Followed ambient QA/QC procedures | 14 stations |
| Blackwater River (Franklin County) TMDL | ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria | DEQ- BRRO-Roanoke Jason Hill 540-562-6724 | Followed ambient QA/QC procedures | 12 stations |
| Jackson River TMDL | ALUS- Benthic | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed benthic QA/QC procedures | 13 stations |
| Looney Creek TMDL | SWIM- Fecal Bacteria | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient QA/QC procedures | 1 station |
| New River Valley TMDL | ALUS- Benthic SWIM- Fecal Bacteria FISH- PCB's | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient and benthic QA/QC procedures | 13 stations |
| Pigg River Watershed TMDL Study | SWIM- Fecal Bacteria | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient QA/QC procedures | 20 stations |
| Roanoke River Fish Consumption TMDL | FISH- PCB | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient QA/QC procedures | 7 stations |
| Roanoke River Watershed TMDL | ALUS- Temperature, SWIM- Fecal Bacteria | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient QA/QC procedures | 18 stations |
| South Mayo River TMDL | ALUS– Dissolved Oxygen, pH, Temperature SWIM – Fecal Bacteria | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient QA/QC procedures | 3 stations |
| Stroubles Creek TMDL | ALUS– Benthic, Dissolved Oxygen, pH, Temperature | DEQ- BRRO-Roanoke Mike McLeod 540-562-6721 | Followed ambient and benthic QA/QC procedures | 3 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|--|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Accotink Creek TMDL | ALUS- Benthic | DEQ- NRO Bryant Thomas 703-583-3843 | Followed benthic QA/QC procedures | 3 stations |
| Catoctin Creek TMDL Implementation Plan Monitoring | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 3 stations |
| Difficult Run TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient and benthic QA/QC procedures | 8 stations |
| Goldmine Creek TMDL | ALUS- Dissolved Oxygen | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 1 station |
| Lower Rapidan River TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 7 stations |
| Massaponax Creek Special Study | ALUS- pH SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 6 stations |
| Neabsco Creek TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 2 stations |
| Occoquan River Basin TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 6 stations |
| Potomac River Shallow Water Tidal Embayment Monitoring Program | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 14 stations |
| Potomac River Tributary PCB Study | FISH- PCB | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 19 stations |
| Potomac River Tributary Bacteria Study | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 9 stations |
| Rappahannock River | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 9 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|---|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Rappahannock River Freshwater Tidal | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 8 stations |
| Rush River Benthic and Water Chemistry Special Study | ALUS- Benthic, Dissolved Oxygen, pH, Temperature | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient and benthic QA/QC procedures | 4 stations |
| South and North Fork Catoctin Creek TMDL | ALUS- Metals, Nutrients, Solids SWIM- Fecal Bacteria | DEQ- NRO Jeff Talbott 703-583-3902 | Followed ambient QA/QC procedures | 8 stations |
| Terry's Run Special Study | ALUS- Dissolved Oxygen | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 4 stations |
| Thumb Run TMDL Implementation Plan Monitoring | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 1 station |
| Tripps and Holmes Run TMDL | ALUS- Metals, Nutrients, Solids SWIM- Fecal Bacteria | DEQ- NRO Jeff Talbott 703-583-3902 | Followed ambient QA/QC procedures | 2 stations |
| Upper Hazel River Basin TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 5 stations |
| Upper Rapidan River Basin TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 8 stations |
| Upper Rappahannock River TMDL | SWIM- Fecal Bacteria | DEQ- NRO Bryant Thomas 703-583-3843 | Followed ambient QA/QC procedures | 2 stations |
| Appomattox- Hopewell Sediment Special Study | ALUS- Metals, Organic Compounds, | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 3 stations |
| Beaverdam Creek TMDL and Class VII Special Study | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Blackwater and Warwick Swamp TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling | Followed ambient QA/QC procedures | 32 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|---|---|-----------------------------------|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| | | 804-527-5021 | | |
| Blackwater River (Sussex County) TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 16 stations |
| Bridges Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 6 stations |
| Buckskin Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 10 stations |
| Bush Mill Stream Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Butterwood Creek & Tributaries TMDL | ALUS- Dissolved Oxygen, pH | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 17 stations |
| Chickahominy River Unnamed Tributary TMDL | ALUS- Benthic | DEQ- PRO Mark Alling 804-527-5021 | Followed benthic QA/QC procedures | 7 stations |
| Coan Mill Stream TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 5 stations |
| Collins Run TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 20 stations |
| Crump Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 6 stations |
| Diascund Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 12 stations |
| Dickeys Swamp Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 9 stations |
| Dragon Swamp and Piankatank River | FISH- Mercury | DEQ- PRO Mark Alling | Followed ambient QA/QC procedures | 13 stations |

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APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|---|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Mercury Source Assessment | | 804-527-5021 | | |
| Farmers Hall Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 1 station |
| Flat, Nibbs, Deep, and West Creeks TMDL Implementation Plan | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient and benthic QA/QC procedures | 16 stations |
| Fox Mill Run TMDL and Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 8 stations |
| Hornquarter Swamp Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 3 stations |
| Hoskins Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 11 stations |
| James River TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Little Wicomico River TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 2 stations |
| Lower Potomac River PCB TMDL | FISH- PCB | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Masons Mill Swamp Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 1 stations |
| Mattaponi River TMDL | FISH- Advisory | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 3 stations |
| Meherrin River and Great Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 44 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|-----------------------------------|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Mill Creek (Northumberland County) TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 2 stations |
| Monquin Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 17 stations |
| Monroe Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 5 stations |
| Mud Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 1 station |
| Occupacia Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Pamunkey River TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 10 stations |
| Pamunkey River Unnamed Tributary TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 2 stations |
| Pine Hill Creek TMDL | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 5 stations |
| Popes Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 6 stations |
| Rumley Marsh Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 7 stations |
| Sappony Creek TMDL | ALUS- Dissolved Oxygen SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 8 stations |
| Severn River TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 3 stations |
| Spring Branch TMDL | ALUS- Benthic | DEQ- PRO Mark Alling | Followed benthic QA/QC procedures | 10 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| | | 804-527-5021 | | |
| Stony Run TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 15 stations |
| Sullens Creek Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 6 stations |
| Tastine and Little Tastine Swamp TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 17 stations |
| Thompson Branch Class VII Swamp Water Study | ALUS- Dissolved Oxygen, pH, Temperature | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 1 station |
| Totopotomoy Creek TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient and benthic QA/QC procedures | 1 station |
| Totuskey Creek TMDL | SWIM- Fecal Bacteria | DEQ- PRO Mark Alling 804-527-5021 | Followed ambient QA/QC procedures | 26 stations |
| Bluestone River TMDL | ALUS- Benthic FISH- PCB SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 12 stations |
| Bull Creek TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed benthic QA/QC procedures | 2 stations |
| Callahan Creek TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 1 station |
| Chestnut Creek TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 2 stations |
| Christians Creek TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 2 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Clinch River Basin TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 36 stations |
| Clinch River TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 7 stations |
| Clinch River Mercury Study | ALUS- Mercury | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 5 stations |
| Clinch River (Tazewell County) TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed benthic QA/QC procedures | 1 station |
| Garden Creek TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 9 stations |
| | SWIM- Fecal Bacteria | | | |
| Guest River TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 1 station |
| | SWIM- Fecal Bacteria | | | |
| Indian Creek (Tazewell County) | ALUS- Benthic, Nutrients, Metals, Solids, Toxicity | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 1 station |
| | SWIM- Fecal Bacteria | | | |
| Lick Creek TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 4 stations |
| | SWIM- Fecal Bacteria | | | |
| Long Glade Run TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 1 station |
| Middle Creek TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed benthic QA/QC procedures | 1 station |
| Middle River TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 2 station |
| Moffetts Creek TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 1 station |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Mossy Creek TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 1 station |
| Naked Creek TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 1 station |
| North Fork Holston and Tributaries TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 12 stations |
| North Fork Powell River TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 2 stations |
| Polecat Draft TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 1 station |
| Pound River TMDL | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed benthic QA/QC procedures | 4 stations |
| Powell River TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 12 stations |
| Straight Creek TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient and benthic QA/QC procedures | 1 station |
| Three Creeks TMDL | SWIM- Fecal Bacteria | DEQ- SWRO Allen Newman 276-676-4804 | Followed ambient QA/QC procedures | 3 stations |
| Wise County Straight Pipe Study | ALUS- Benthic | DEQ- SWRO Allen Newman 276-676-4804 | Followed benthic QA/QC procedures | 5 stations |
| Harmful Algal Bloom Monitoring | ALUS– Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria | DEQ- TRO Roger Everton 757-518-2150 | Followed ambient watershed QA/QC procedures | 35 stations |
| Lafayette River Bacteria Special Study | SWIM- Fecal Bacteria | DEQ- TRO Roger Everton | Followed ambient watershed QA/QC procedures | 13 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| | | 757-518-2150 | | |
| 2004/2005 VRO BST Study | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 5 stations |
| 2005/2006 VRO BST Study | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 8 stations |
| Beaver Creek TMDL | ALUS- Dissolved Oxygen, Nutrients, pH, Solids, Temperature SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 5 stations |
| Cedar Creek TMDL Study | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 2 stations |
| Cooks Creek and Blacks Run TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 7 stations |
| Crooked Run TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 4 stations |
| Hawksbill and Mill Creek TMDL | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 4 stations |
| Hays and Walker Creek TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 2 stations |
| Hogue Creek TMDL | ALUS- Benthic, Temperature SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 2 stations |
| Holmans Creek TMDL Implementation Plan Monitoring | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 1 station |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Lewis Creek TMDL | ALUS- Benthic FISH- PCB's SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 13 stations |
| Little Calpasture River TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 2 stations |
| Long Meadow and Turley Creek TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 3 stations |
| Maury River TMDL | ALUS- Benthic FISH- PCB | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 1 station |
| Meadow Creek and Shencks Branch TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 18 stations |
| Mill Creek TMDL | ALUS- Dissolved Oxygen, Nutrients, pH, Solids, Temperature SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 1 station |
| Moores Creek TMDL | ALUS- Benthic SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 1 station |
| Naked Creek TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 2 stations |
| North Fork Shenandoah River Fish Kill | ALUS- Unknown | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 27 stations |
| North Fork Shenandoah River TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 1 station |
| North River Tributaries TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 5 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|--|----------------------|---|-----------------------------------|-------------|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Opequon Creek and Abrams Creek TMDL Implementation Plan | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 3 stations |
| Rivanna River TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 4 stations |
| Rivanna River and North Fork Rivanna River TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 7 stations |
| Shenandoah Fish Kill Task Force Study | ALUS- Unknown | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 53 stations |
| Smith Creek TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 4 stations |
| Smith Creek, Mountain Run, Fridley Run TMDL | ALUS- Benthic | DEQ- VRO Donald Kain 540-574-7815 | Followed benthic QA/QC procedures | 4 stations |
| South River Mercury Study | ALUS- Mercury | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 3 stations |
| South River and South Fork Shenandoah TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 13 stations |
| South River Sediment Study | ALUS- Water Clarity | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 55 stations |
| South River and Shenandoah River Smallmouth Bass Mercury Special Study | FISH- Mercury | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 14 stations |
| Spout Run TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 4 stations |
| Stony Creek TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 2 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|---|---|--|--|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Tye River TMDL | SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient QA/QC procedures | 3 stations |
| West Straight Creek TMDL | ALUS- Benthic, Dissolved Oxygen, Nutrients, Metals, Oxygen Demand, pH, Solids, Temperature SWIM- Fecal Bacteria | DEQ- VRO Donald Kain 540-574-7815 | Followed ambient and benthic QA/QC procedures | 6 stations |
| Estuarine Probabilistic Monitoring Program (minor Chesapeake Bay and coastal tidal tributaries) | ALUS- Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Sediment Triad (chemistry, toxicity, benthos), Temperature FISH- Fish Tissue Chemistry | DEQ-WQA Donald Smith 804-698-4429. | Protocols and QA/QC Plan: James Beckley 804-698-4025 QA/QC of field audits, at DCLS laboratories and of locally analyzed results. | 273 sample stations during the six year window. Assessed cumulative parameter data, such as sediment and tissue chemistry, sediment toxicity and benthic community structure using a 'weight of evidence' approach. |
| Near Shore Oceanic Survey | ALUS Dissolved Oxygen, Nutrients, pH, Sediment Triad (chemistry, toxicity, benthos), Temperature, SWIM- Fecal Bacteria | DEQ-WQA Donald Smith 804-698-4429 | Protocols and QA/QC Plan: James Beckley 804-698-4025 QA/QC of field audits, at DCLS laboratories and of locally analyzed results. | 50 stations sampled once during August 2010. Samples collected off the Eastern Virginia shore using a EPA research vessel. Samples analyzed at DCLS and EPA contracted laboratories |
| Elizabeth and Upper James Tidal PCB TMDL Special Study | FISH- PCB | DEQ- WQP Mark Richards 804-698-4392 | Followed ambient QA/QC procedures | 58 stations |
| Middle Roanoke River PCB study | FISH- PCB | DEQ- WQP Mark Richards 804-698-4392 | Followed ambient QA/QC procedures | 18 stations |
| PCB Fish Consumption Study | ALUS- PCB | DEQ- WQP Mark Richards 804-698-4392 | Followed ambient QA/QC procedures | 37 stations |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|--|--|--|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Non-Citizen, Non-Agency Monitoring | | | | |
| Ambient Water Quality Monitoring | ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM– Fecal Bacteria | Abingdon Sewage Treatment Plant Mike Maiden 276-628-4321 | QA/QC review by James Beckley 804-698-4025. Dissolved oxygen, pH, temperature, nitrate, total phosphorus, and E. coli data is acceptable for assessment use. | Reference letter February 15, 2008 to Mike Maiden. 1 station with 59 sample events collected during the six year assessment window. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Arlington County Volunteer E. Coli Monitors Aileen Winquist Dept. Environmental Services 703-228-3610 | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Aileen Winquist. 13 stations with 213 samples collected from October 2006 to July 2009. |
| Ambient Water Quality Monitoring | ALUS- Metals | Appalachian Electric Power Jonathan Magalski 614-716-2240 www.smithmtn.com/AquaticVegetation/Default.aspx | QA/QC review by James Beckley 804-698-4025 Dissolved copper analysis is acceptable for assessment use. | 10 stations with 100 sample events from June 2005 to September 2009 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature, Turbidity | Chesterfield County Department of Environmental Engineering Weedon Cole 804-748-1035 www.chesterfield.gov/content2.aspx?id=2851 | QA/QC review by James Beckley 804-698-4025. Dissolved oxygen, pH, temperature data is acceptable for assessment use for VA Category 3C and 3D. | Reference letter February 15, 2008 to Weedon Cole. 28 stations with 320 sample events during the six year assessment window. |
| Ambient Water Quality Monitoring | ALUS– Dissolved Oxygen, pH, Temperature | City of Newport News Raw Water Monitoring Program 804-966-9887 www.nngov.com/waterworks | QA/QC review by James Beckley 804-698-4025. Upon reviewing SOP and calibration logs, dissolved oxygen, pH, and temperature data is acceptable for assessment use. | Reference letter February 15, 2008 to Horace B. Davis Jr. 6 stations with 373 sample events. |
| Ambient Water Quality Monitoring | ALUS- Chloride, pH | Cumberland Resources Corporation | QA/QC review by James Beckley 804-698-4025. | 7 sample stations with 73 sample events collected from |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|---|---|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| | | Brooks Smith 804-787-8086 | Upon review of sampling procedures and laboratory protocols, chloride and pH data is accepted for assessment use. | August 2005 to October 2010. |
| Ambient Water Quality Monitoring | ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM– Fecal Bacteria | Edge Valley Preservation LLC Leif Riddervold 434-295-3700 | QA/QC review by James Beckley 804-698-4025. After review of sampling and laboratory protocols, nutrient and E. coli data is acceptable for assessment. Dissolved oxygen, pH, and temperature data acceptable for VA Category 3C and 3D determination. | 8 sample stations with 48 sample events collected from March 2007 to February 2008. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | James City County Stormwater Division Suzanne Dyba 757-259-1460 www.jccgov.com/stormwater/ | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | 12 stations with 140 sample events collected from April 2009 to March 2010 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, Nutrients, pH, Temperature | National Park service- Assateague Island National Seashore Brian Sturgis 410-629-6075 | | 6 stations with 306 sample events from October 2005 to December 2009 |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, pH, Temperature | National Park Service- Mid Atlantic Monitoring Network Jim Comiskey 540-654-5328 http://science.nature.nps.gov/im/units/midn/ | QA/QC review by James Beckley 804-698-4025 Data collected for dissolved oxygen, pH, and temperature using DEQ calibration protocols accepted for assessment use. | 43 stations with 351 sample events collected from October 2008 to December 2010 |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|---|--|---|--|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Benthic Macroinvertebrate Monitoring | ALUS- Benthic Monitoring | National Park Service- Richmond Area National Parks Kristen Allen 804-795-5019 | QA/QC review by James Beckley, 804-698-4025 and Aimee Budd 804-698-4046. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D. | Reference letter February 11, 2010 to Kristen Allen. 8 stations with 24 sample events collected from November 2005 to December 2008. |
| Routine reservoir monitoring | ALUS- Dissolved Oxygen, pH, Temperature | Occoquan Watershed Monitoring Laboratory Harry Post 703-361-5606 www.owml.vt.edu/ | QA/QC review by James Beckley 804-698-4025. Sample collection protocols, analytical methods, and laboratory reviewed. Dissolved oxygen, pH, an temperature data is accepted by DEQ | Reference letter February 15, 2008 to Harry Post. 15 stations with 1,747 sample events collected during six years of the assessment window |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | Page County Department of Environmental Services www.pagecounty.virginia.gov | QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D | Reference letter February 15, 2008 to Page County Department of Environmental Services. 26 stations with 739 observations collected from September 2005 to February 2010. |
| Ambient lake monitoring | ALUS- Dissolved Oxygen, pH, Temperature | Reston Association Nicki Foremsky 703-435-6560 www.reston.org | Data submitted in time for consideration did not provide sufficient QA/QC information or metadata. Data was not included in the assessment report | Reference letter February 15, 2008 to Nicki Foremsky. 6 stations with approximately 96 sample events |
| Routine reservoir monitoring | SWIM- Fecal Bacteria ALUS- Dissolved Oxygen, pH, Temperature, Nutrients, Chlorophyll, Metals | Tennessee Valley Authority Susan Malone 423-876-4179 www.tva.gov/environment/water | QA/QC review by James Beckley, 804-698-4025. E. coli data is acceptable for assessment purposes. Field parameters, nutrients, and metals used for assessment of water quality as VA Category 3C or 3D | 3 stations with 91 observations from April 2005 to October 2010 |

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

| WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT | | | | |
|---|--|---|--|---|
| Data Set | Parameters/Use Goals | Organization/Contact | QA/QC Review | Comments |
| Benthic Macroinvertebrate Monitoring | ALUS-Benthic Monitoring | United States Forest Service Dawn Kirk 540-291-1759 www.fs.fed.us | ALUS method comparable to DEQ protocols. | 157 stations with 278 biological sample events collected from March 2005 to May 2010. |
| Water quality monitoring | ALUS- Benthic, Dissolved Oxygen, pH, Temperature | United States Environmental Protection Agency Dr. Ariamalar Selvakumar 732-906-6990 www.epa.gov/region03 | QA/QC review by James Beckley (804) 698-4025. Benthic monitoring follows EPA protocols. QA/QC information on field probe calibration was not available for review. Benthic data accepted for assessment use. | 4 stations with 15 sample events collected from November 2005 to March 2006. |
| Ambient Water Quality Monitoring | ALUS- Dissolved Oxygen, Metals, PCB's, pH, Temperature | United States Geological Survey Kenneth E. Hyer 804-261-2636 http://va.water.usgs.gov | Standard methods are used. Data included in assessment for parameters that have Virginia Water Quality Standards | 100 ambient stations with 1,900 sample events. 10 continuous monitoring stations with 1,106,666 sample events collected during the six years of the assessment window. |
| Ambient Water Quality Monitoring | SWIM- Fecal Bacteria | VDH Beach Monitoring Program Daniel Dietrich 804-864-8128 www.vdh.virginia.gov/epidemiology/DZEE/BeachMonitoring | Methods for sampling Enterococcus are consistent with DEQ sampling and testing procedures. Bacteria data is acceptable for assessment purposes. | 50 stations with 5,104 bacteria samples collected from May to October during the six year assessment window. |